

PREPARATION OF MEMBRANE

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Patent Number: JP61035847
Publication date: 1986-02-20
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Requested Patent: ☐ JP61035847
Application Number: JP19840155218 19840727
Priority Number(s):
IPC Classification: B01J19/08; C23C14/24; C30B23/00
EC Classification:
EC Classification:
Equivalents:

Abstract

PURPOSE: To form a controlled arbitrary atomic layer or molecular layer structure, in preparing the membrane utilized in an electronic device, by performing the growth of the membrane in the presence of an atomic group, wherein surface energy does not become larger than the energy of a growth surface, in the membrane growth surface.

CONSTITUTION: As third substances C, C', atomic groups or functional groups 3, 3' are chemical bonded to the atom of a growth surface or adsorbed thereby to make it possible to always keep the surface energies σ_C , $\sigma_{C'}$ of a formed membrane smaller than the energies σ_A , σ_B of a substrate. Therefore, even through processes (a), (b), (c), all of films A, B can be always formed only of an arbitrary atomic layer as flat membranes. As a membrane forming stock material, a compound containing a membrane constituting element is pref. used and, as the stock compound, hydride, metal alkoxide or metal carboxide are pref.